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Substitute for form 1449/PTO		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Application Number</b>	10/531,078
		<b>Filing Date</b>	2005-04-12
		<b>First Named Inventor</b>	Gainey et al.
		<b>Art Unit</b>	2618
		<b>Examiner Name</b>	PHU, SANH D
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<b>Attorney Docket No:</b> 080590			

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>20(f) known</sup>			
	001	US3363250	01-09-1968	Irving Jacobson.	
	002	US4001691	01-04-1977	Gruenberg et al.	
	003	US4081752	03-28-1978	Sumi et al.	
	004	US4204016	05-20-1980	Chavannes et al.	
	005	US4334323	06-08-1982	Moore et al.	
	006	US4368541	01-11-1983	Evans et al.	
	007	US4509206	04-02-1985	Carpe et al.	
	008	US4701935	10-20-1987	Namiki et al.	
	009	US4723302	02-02-1988	Fulmer et al.	
	010	US4783843	11-08-1988	Leff et al.	
	011	US4820568	04-11-1989	Harpell et al.	
	012	US4922259	05-01-1990	Hall et al.	
	013	US5023930	06-11-1991	Leslie et al.	
	014	US5214788	05-25-1993	Delaperriere et al.	
	015	US5220562	06-15-1993	Takada et al.	
	016	US5280480	01-18-1994	Pitt et al.	
	017	US5341364	08-23-1994	Marra et al.	
	018	US5349463	09-20-1994	Hirohashi et al.	
	019	US5371734	12-06-1994	Fischer et al.	
	020	US5373503	12-13-1994	Chen et al.	
	021	US5408618	04-18-1995	Aho et al.	

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	022	US5430726	07-04-1995	Moorwood et al.	
	023	US5465251	11-07-1995	Judd et al.	
	024	US5471642	11-28-1995	Palmer et al.	
	025	US5509028	04-16-1996	Marque-Pucheu et al.	
	026	US5515376	05-07-1996	Murthy et al.	
	027	US5610916	03-11-1997	Kostreski et al.	
	028	US5648984	07-15-1997	Kroninger et al.	
	029	US5654979	08-05-1997	Levin; Jeffrey A. et al.	
	030	US5659879	08-19-1997	Dupuy et al.	
	031	US5684801	11-04-1997	Amitay et al.	
	032	US5697052	12-09-1997	Treatch et al.	
	033	US5745846	04-28-1998	Myer et al.	
	034	US5754540	05-19-1998	Liu et al.	
	035	US5764636	06-09-1998	Edsall et al.	
	036	US5771174	06-23-1998	Spinner et al.	
	037	US5784683	07-21-1998	Sistanizadeh et al.	
	038	US5794145	08-11-1998	Milam et al.	
	039	US5852629	12-22-1998	Iwamatsu et al.	
	040	US5857144	01-05-1999	Mangum et al.	
	041	US5875179	02-23-1999	Tikalsky et al.	
	042	US5884181	03-16-1999	Arnold et al.	

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		Number-Kind Code <sup>2</sup> (if known)			
	043	US5890055	03-30-1999	Chu et al.	
	044	US5903553	05-11-1999	Sakamoto et al.	
	045	US5907794	05-25-1999	Lehmusto et al.	
	046	US5963846	10-05-1999	Kurby et al.	
	047	US5987304	11-16-1999	Latt et al.	
	048	US6005855	12-21-1999	Zehavi et al.	
	049	US6005884	12-21-1999	Cook et al.	
	050	US6014380	01-11-2000	Hendel et al.	
	051	US6032194	02-29-2000	Gai et al.	
	052	US6061548	05-09-2000	Reudink et al.	
	053	US6088570	07-11-2000	Komara et al.	
	054	US6101400	08-08-2000	Ogaz et al.	
	055	US6108364	08-22-2000	Weaver, Jr et al.	
	056	US6128512	10-03-2000	Trompower et al.	
	057	US6128729	10-03-2000	Kimball et al.	
	058	US6163276	12-19-2000	Irving et al.	
	059	US6188694	02-13-2001	Fine et al.	
	060	US6188719	02-13-2001	Colomby et al.	
	061	US6195051	02-27-2001	McCoy et al.	
	062	US6202114	03-13-2001	Dutt et al.	
	063	US6215982	04-10-2001	Trompower et al.	

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	064	US6219739	04-17-2001	Dutt et al.	
	065	US6272351	08-07-2001	Langston et al.	
	066	US6298061	10-02-2001	Chin et al.	
	067	US6304563	10-16-2001	Blessent et al.	
	068	US6304575	10-16-2001	Carroll et al.	
	069	US6331792	12-18-2001	Tonietto et al.	
	070	US6342777	01-29-2002	Takahashi et al.	
	071	US6363068	03-26-2002	Kinoshita et al.	
	072	US6370185	04-09-2002	Schmutz et al.	
	073	US6370369	04-09-2002	Kraiem et al.	
	074	US6377612	04-23-2002	Baker et al.	
	075	US6377640	04-23-2002	Trans et al.	
	076	US6385181	05-07-2002	Tsutsui et al.	
	077	US6388995	05-14-2002	Gai et al.	
	078	US6441781	08-27-2002	Rog et al.	
	079	US6473131	10-29-2002	Neugebauer et al.	
	080	US6480481	11-12-2002	Park et al.	
	081	US6501955	12-31-2002	Durrant et al.	
	082	US6535732	03-18-2003	McIntosh et al.	
	083	US6539204	03-25-2003	Marsh et al.	
	084	US6549567	04-15-2003	Fullerton et al.	

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	085	US6574198	06-03-2003	Petersson et al.	
	086	US6628624	09-30-2003	Mahajan et al.	
	087	US6718160	04-06-2004	Schmutz et al.	
	088	US6728541	04-27-2004	Ohkura et al.	
	089	US6781544	08-24-2004	Saliga et al.	
	090	US6880103	04-12-2005	Kim et al.	
	091	US6906669	06-14-2005	Sabet et al.	
	092	US6934511	08-23-2005	Lovinggood et al.	
	093	US6934555	08-23-2005	Silva et al.	
	094	US6944139	09-13-2005	Campanella et al.	
	095	US6957042	10-18-2005	Williams et al.	
	096	US6983162	01-03-2006	Garani et al.	
	097	US6985516	01-10-2006	Easton et al.	
	098	US7027418	04-11-2006	Gan et al.	
	099	US7050442	05-23-2006	Proctor et al.	
	100	US7058368	06-06-2006	Nicholls et al.	
	101	US7088734	08-08-2006	Newberg et al.	
	102	US7103344	09-05-2006	Menard et al.	
	103	US7120930	10-10-2006	Maufer et al.	
	104	US7123676	10-17-2006	Gebara et al.	
	105	US7133391	11-07-2006	Belcea et al.	

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	106	US7139527	11-21-2006	Tamaki et al.	
	107	US7167526	01-23-2007	Liang et al.	
	108	US7193975	03-20-2007	Tsutsumi et al.	
	109	US7194275	03-20-2007	Bolin et al.	
	110	US7200134	04-03-2007	Proctor, Jr et al.	
	111	US7215964	05-08-2007	Miyake et al.	
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	113	US7248645	07-24-2007	Vialle et al.	
	114	US7254132	08-07-2007	Takao et al.	
	115	US7315573	01-01-2008	Lusky et al.	
	116	US7319714	01-15-2008	Sakata et al.	
	117	US7321787	01-22-2008	Kim et al.	
	118	US7339926	03-04-2008	Stanwood et al.	
	119	US7352696	04-01-2008	Stephens et al.	
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	122	US7590145	09-15-2009	Futch et al.	
	123	US7676194	03-09-2010	Rappaport et al.	
	124	US20070286110	12-13-2007	James A. JR et al	
	125	US20010031646	10-18-2001	Williams, Terry L et al.	
	126	US20010054060	12-20-2001	Fillebrown, Lisa A et al.	

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	127	US20020018487	02-14-2002	Chen, Song et al.	
	128	US20020061031	05-23-2002	Sugar, Gary L et al.	
	129	US20020089945	07-11-2002	Belcea, John M et al.	
	130	US20020101843	08-01-2002	Sheng, Huang Chih et al.	
	131	US20020102948	08-01-2002	Stanwood, Kenneth L et al.	
	132	US20020115409	08-22-2002	Khayrallah, Ali S et al.	
	133	US20020136268	09-26-2002	Gan, Hongbing et al.	
	134	US20020163902	11-07-2002	Takao, Toshiaki et al.	
	135	US20020177401	11-28-2002	Judd, Mano D et al.	
	136	US20030139175	07-24-2003	Kim, Jong-Hwan et al.	
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	138	US20030235170	12-25-2003	Trainin, Solomon B et al.	
	139	US20030236069	12-25-2003	Sakata, Ren et al.	
	140	US20040038707	02-26-2004	Kim, Hyeon Seog et al.	
	141	US20040047333	03-11-2004	Han, Sung-Chul et al.	
	142	US20040047335	03-11-2004	Proctor, James Arthur JR et al.	
	143	US20040131025	07-08-2004	Dohler, Mischa et al.	
	144	US20040146013	07-29-2004	Song, Peter Chun Teck et al.	
	145	US20040166802	08-26-2004	McKay, David L. SR et al.	
	146	US20040176050	09-09-2004	Steer, David et al.	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Application Number</b>	10/531,078
				<b>Filing Date</b>	2005-04-12
				<b>First Named Inventor</b>	Gainey et al.
				<b>Art Unit</b>	2618
				<b>Examiner Name</b>	PHU, SANH D
<b>Sheet</b>	8	of	13	<b>Attorney Docket No:</b> 080590	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	147	US20040198295	10-07-2004	Nicholls, Charles T et al.	
	148	US20040218683	11-04-2004	Batra, Anuj et al.	
	149	US20040229563	11-18-2004	Fitton, Michael Philip et al.	
	150	US20040264511	12-30-2004	Futch, Richard J et al.	
	151	US20050014464	01-20-2005	Larsson, Peter et al.	
	152	US20050030891	02-10-2005	Stephens, Adrian P et al.	
	153	US20050042999	02-24-2005	Rappaport, Theodore S et al.	
	154	US20050254442	11-17-2005	Proctor, James A. JR et al.	
	155	US20050256963	11-17-2005	Proctor Jr., James A et al.	
	156	US20060041680	02-23-2006	Proctor Jr et al.	
	157	US20060056352	03-16-2006	Proctor et al.	
	158	US20060063484	03-23-2006	Proctor et al.	
	159	US20060098592	05-11-2006	Proctor Jr et al.	
	160	US20060183421	08-17-2006	Proctor et al.	
	161	US20060262026	11-23-2006	Gainey et al.	
	162	US20070025486	02-01-2007	Gainey et al.	
	163	US20070032192	02-08-2007	Gainey et al.	
	164	US7187904	03-06-2007	Gainey, Kenneth M et al.	

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		Filing Date	2005-04-12	
		First Named Inventor	Gainey et al.	
		Art Unit	2618	
		Examiner Name	PHU, SANH D	
Sheet	9	of	13	Attorney Docket No: 080590

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		Country Code <sup>3*</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	165	EP0523687A2	01-20-1993	FUJITSU LTD [JP]		<input type="checkbox"/>
	166	EP0860953A1	08-26-1998	SAGEM [FR]		<input type="checkbox"/>
	167	GB2272599A	05-18-1994	NOKIA TELECOMMUNICATIONS OY [FI]		<input type="checkbox"/>
	168	JP8097762A	04-12-1996	INFUORABU KK		<input type="checkbox"/>
	169	JP9162903A	06-20-1997	VICTOR COMPANY OF JAPAN et al.		<input type="checkbox"/>
	170	JP7079187A	03-20-1995	ALCATEL MOBILE COMM FRANCE		<input type="checkbox"/>
	171	WO0208857A2	01-31-2002	CADENCE DESIGN SYSTEMS INC [US]		<input type="checkbox"/>
	172	WO0217572A2	02-28-2002	NORTEL NETWORKS CORP [CA] et al.		<input type="checkbox"/>
	173	WO2004002014A1	12-31-2003	WIDEFI INC [US] et al.		<input type="checkbox"/>
	174	WO2004062305A1	07-22-2004	WIDEFI INC [US] et al.		<input type="checkbox"/>
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		Filing Date	2005-04-12	
		First Named Inventor	Gainey et al.	
		Art Unit	2618	
		Examiner Name	PHU, SANH D	
Sheet	10	of	13	Attorney Docket No: 080590

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	191	ANDRISANO, et al., "On the Spectral Efficiency of CPM Systems over Real Channel in the Presence of Adjacent Channel and CoChannel Interference: A Comparison between Partial and Full Response Systems, IEEE Transactions on Vehicular Technology, Vol. 39, No. 2, May 1990.	
	192	Code of Federal Regulations, Title 47 Telecommunication; "Federal Communications Commission code part 15.407," Federal Communications Commission vol. 1, chapter I, part 15.407.	
	193	Copy of First Office Action issued from the Chinese Patent Office in connection with corresponding Chinese application No. 200380101286.2. (Attorney Docket 080586CN, corresponding U.S. patent application serial number 10/530,546)	
	175	Draft Corrigendum to IEEE Standard for Local and Metropolitan Area Networks- Part 16: Air Interface for Fixed Broadband Wireless Access Systems, IEEE P802.16-2004/Cor1/D5.	
	176	Draft IEEE Standard for Local and Metropolitan Area Networks- Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems; Amendment for Physical and Medium Access Control Layers for Combined Fixed and Mobile Operation in Licensed Bands.	
	177	First Report issued by IP Australia on July 31, 2007 in connection with the corresponding Australian application No. 2003239577. (Attorney Docket 080583AU, corresponding U.S. patent application serial number 10/516,327)	
	178	IEEE Std 802.16(e), Part 16: Air Interface for Fixed Broadband Wireless Access Systems, 2005, Sections 8.4.10.2.1; 8.4.10.3.2.	
	179	IEEE Std 802.11-1999 (Reaff 2003), "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications," LAN MAN Standards Committee of the IEEE Computer Society, Paragraphs 7.2.3.1 and 7.2.3.9, Paragraph 7.3.2.4; Paragraphs	

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				<b>First Named Inventor</b>	Gainey et al.
				<b>Art Unit</b>	2618
				<b>Examiner Name</b>	PHU, SANH D
<b>Sheet</b>	<b>11</b>	<b>of</b>	<b>13</b>	<b>Attorney Docket No:</b> 080590	

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		15.4.6.2 and 18.4.6.2.		
	180	IEEE Std 802.11b-1999, "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Higher-Speed Physical Layer Extension in the 2.4 GHz Band," IEEE-SA Standards Board, Supplement to ANSI/IEEE Std. 802.11, 1999 Edition, Approved September 16, 1999.		
	181	IEEE Std 802.11g-2003, "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Amendment 4: Further Higher Data Rate Extension in the 2.4 GHz Band," IEEE Computer Society, Published by The Institute of Electrical and Electronics Engineers, Inc., June 27, 2003.		
	182	IEEE Std 802.16-2001; "Part 16: Air Interface for Fixed Broadband Wireless Access Systems," IEEE Computer Society and the IEEE Microwave Theory and Techniques Society, Published by The Institute of Electrical and Electronics Engineers, Inc., April 8, 2002.		
	183	International Search Report - PCT/US03/029130, International Search Authority - US, 01-21-04 (Attorney Docket 080590WO, corresponding U.S. patent application serial number 10/531,078)		
	184	Mexican Office communication dated July 2, 2007 issued from Mexican Patent Office for application PA/a/2004/011588 with partial translation thereof. (Attorney Docket 080583MX, corresponding U.S. patent application serial number 10/516,327)		
	185	Notification of the First Office Action from Chinese Patent Office dated September 8, 2006 for the corresponding Chinese patent application No.: 200380105267.7. (Attorney Docket 080589CN, corresponding U.S. patent application serial number 10/536,471)		
	186	Office Action issued from the Mexican Patent Office dated February 22, 2008 in connection with the corresponding Mexican Patent Application No. PA/a/2004/011588. (Attorney Docket 080583MX, corresponding U.S. patent application serial number 10/516,327)		
	187	Office communication dated January 12, 2007 issued from the European Patent Office for counterpart application No. 03734136.9-1246. (Attorney Docket: 080583EP, corresponding U.S. patent application serial number 10/516,327)		
	188	Office communication dated October 19, 2006 issued from the Mexican Patent Office for counterpart application No. PA/a/2004/011588. (Attorney Docket 080583MX, corresponding U.S. patent application serial number 10/516,327)		

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		<b>Filing Date</b>	2005-04-12
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		<b>Art Unit</b>	2618
		<b>Examiner Name</b>	PHU, SANH D
<b>Sheet</b>	<b>12</b>	<b>of</b>	<b>13</b>
		<b>Attorney Docket No:</b> 080590	

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	189	Second Office Action issued from the Chinese Patent Office on July 20, 2007 in connection with corresponding Chinese application No. 200380101286.2. (Attorney Docket 080586CN, corresponding U.S. patent application serial number 10/530,546)	
	190	Specifications for 2.3 GHz Band Portable Internet Service - Physical & Medium Access Control Layer, TTAS.KO-06.0082/R1, December 2005.	
	191	Third Office Action issued from the Patent Office of People's Republic of China dated January 4, 2008 in corresponding Chinese Patent Application No. 200380101286.2. (Attorney Docket 080586CN, corresponding U.S. patent application serial number 10/530,546)	
	192	Translation of Office Action issued by Chinese Patent Office on October 19, 2007 in connection with the corresponding Chinese application No. 03814391.7. (Attorney Docket 080583CN, corresponding U.S. patent application serial number 10/516,327)	
	193	U.S. PTO Office Action mailed on April 17, 2007 for the corresponding parent patent application No. 11/339,838, now U.S. Patent No. 7,230,935.	
	194	U.S. PTO Office Action mailed on January 24, 2007 for the corresponding parent patent application No. 11/339,838, now U.S. Patent No. 7,230,935.	
	195	U.S. PTO Office Action mailed on November 21, 2006 for the corresponding parent patent application No. 11/339,838, now U.S. Patent No. 7,230,935.	
	196	U.S. PTO Office Action mailed on November 6, 2006 for the corresponding parent patent application No. 11/339,838, now U.S. Patent No. 7,230,935.	

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